\$\$\$\$\$\$\$\$\$\$\$\$	UUU	UUU	MMM	MMM
SSSSSSSSSS	UUU	UUU	MMM	MMM
\$\$\$\$\$\$\$\$\$\$\$\$	UUU	UUU	MMM	MMM
SSS	ŪŪŪ	ŬŪŬ	MMMMMM	MMMMMM
SSS	ŬŬŬ	ŬŬŬ	MMMMMM	MMMMMM
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMMMMM	MMMMMM
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMM MMI	
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMM MMI	
SSS	ŬŬŬ	ŬŬŬ	MMM MMI	
SSSSSSSS	ŬŬŬ	ŬŬŬ	MMM	MMM
SSSSSSSS	ŬŬŬ	ŬŬŬ	MMM	MMM
SSSSSSSS	ŬŬŬ	ŬŬŬ	MMM	MMM
SSS	ŬŬŬ	ŬŬŬ	MMM	MMM
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMM	MMM
SSS	ŬŬŬ	ŬŬŬ	MMM	MMM
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMM	MMM
ŠŠŠ	ÜÜÜ	ŬŬŬ	MMM	MMM
ŠŠŠ	ÜÜÜ	ŬŬŬ	MMM	MMM
\$\$\$\$\$\$\$\$\$\$\$\$\$	UUUUUUUUUU		MMM	MMM
\$\$\$\$\$\$\$\$\$\$\$\$\$\$			MMM	MMM
\$\$\$\$\$\$\$\$\$\$\$\$\$			MMM	MMM
<i></i>			rww1	mmm

FILEID**SUMLIST

\$	00 00	MM MM MMM MMM MMM MMMM MMMM MM MM MM MM		\$	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	
		\$				

**F

C 7 SUM\$LIST Table of contents 16-SEP-1984 02:11:50 VAX/VMS Macro V04-00 SUM Tab Page 0 DECLARATIONS
SUMSUPDATE QUAL
SUMSLIST QUAL
SUMSLIST PARAM
SUM_GETSUMBLK (2) (3) (4) (5) (6) 51 81 169 264 356

16-SEP-1984 02:11:50 VAX/VMS Macro V04-00 5-SEP-1984 03:39:08 [SUM.SRC]SUMLIST.MAR; [SUM.SRC]SUMLIST.MAR:1

Page

(1)

SUM VO4

0000 0000 0000 0000 .TITLE SUMSLIST .IDENT 'V04-000'

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; FACILITY:

ABSTRACT:

Source Update Merge procedure to create update files list

ENVIRONMENT: USER MODE

AUTHOR: R. Newland

MODIFIED BY:

V03-001 BLS0175 Benn Schreiber Add routine SUM\$UPDATE_QUAL to process /UPDATE qualifier

48 49 RQTYPE = CLI\$K_ASCIIVAL ; Convert an ASCII string

\$CLIREQDESC -

SUM VO4

Page

VAX/VMS Macro V04-00

```
16-SEP-1984 02:11:50
5-SEP-1984 03:39:08
                                                                                                                                    (3)
              SUMSUPDATE_QUAL
                                                                                           [SUM.SRC]SUMLIST.MAR:1
                                            .SBTTL SUMSUPDATE_QUAL
                     ŎŎÌČ
                     001C
                     001C
                                    Description:
                     001C
                              86
87
                     0010
                                    This procedure creates a singly linked update files list from the values of a /UPDATE qualifier. The qualifier values are expected to be file specs.
                     001C
                     001C
                              88
                                    If no values are supplied with the qualifer a list containing one entry is
                     001C
                                    created.
                              90
                     0010
                     ŎŎ1Č
                              91
                              93
93
                     001C
                                    Calling sequence:
                     001C
                              94
                     001C
                                            CALLS/CALLG
                              95
                     001C
                     001 C
                              96
                     001C
                              97
                                    Inputs:
                     001C
                              98
                     001C
                              99
                                             4(AP) = Address of getvalue routine (normally CLI$GET_VALUE)
8(AP) = Address of descriptor for qualifier name (normally 'UPDATE')
                     001C
                             100
                                            12(AP) = address to put update files list address (the address
                     001C
                             101
                     001C
                                                        of the first update file)
                     001C
                                           16(AP) = Address of a dynamic string descriptor. Its contents are
                             103
                     001C
                             104
                                                        indeterminate after this routine returns.
                     001C
                             105
                     001C
                                    Outputs:
                     001C
                             107
                     001C
                             108
                                           None
                    001C
                             109
                    001C
                             110
                                    Implicit inputs:
                    001C
                             111
                             112
                    001C
                                           The CLI data base
                    001C
                    001C
                             114
                                    Implicit outputs:
                            115
                    001C
                    001C
                             116
                                           The update files list
                    001C
                             117
                    001C
                             118
                                    Procedure value:
                             119
                    001C
                                           SUMS_NORMAL = LIBS_INSVIRMEM, LIBS_BADBLOSIZ,
                             0010
                                                               Normal completion
                    001C
                    001C
                    001C
                                           LIBS_BADBLOADR = Error from calling LIBSGET_VM or LIBSFREE_VM
                    001C
                    001C
                    001C
               00000000
                                            .PSECT SUMSCODE, NOWRT, LONG
                     0000
                                            .ENTRY SUM$UPDATE_QUAL,^M<R2,R3,R4,R5,R6,R7,R8,R10,R11>
             ODFC
                    0000
                    0002
0002
                                                     16(AP),R11
                                                                                    R11 Points to the descriptor Initialize file number
5B
      10 AC
               D0
                                            MOVL
          58
               D4
                     0006
                                            CLRL
                                                     R8
      OC BC
                                                     212(AP)
                D4
                                                                                     Initialize update file listhead
                     8000
                                            CLRL
                     000B
                                  105:
          5B
                DD
                                            PUSHL
                                                     R11
                                                                                    Stack descriptor address for buffer
      80
                     0000
                                                                                    Stack qualifier name string
                DD
                                            PUSHL
                                                     8(AP)
               FB
                                                     #2,24(AP)
                     001C
                                            CALLS
                                                                                     Get next qualifier value
                                                                                  ; Get next quartitie
; Save error status
                     0014
                DO
                                            MOVL
                                                     RO.R9
```

#SUM\$_NORMAL,RO

; Set successful finish

11

DO

0060

0067

00848001 8F

165

166

167

50\$:

BRB

RET

MOVL

65

SUM

V04

60

SUMSLIST_QUAL

58

01

0070

BLBC

0007

5A 50

```
SLM&LIST
V04-000
```

```
169
170
171
                                  .SBTTL SUMSLIST_QUAL
        0068
        0068
                 172
173
        0068
                        Functional description:
        0068
                 174
175
                                 This procedure creates a singly linked update files list from the values of an /UPDATE qualifier. The qualifier values are expected to be file specifications. If no values are
        0068
        0068
                 176
177
        0068
        0068
                                 supplied with the qualifer a list containing one entry is
        0068
                 178
                                 created.
        0068
                 179
       0068
0068
                 180
                 181
                         Calling sequence:
                 182
183
       0068
00068
00068
00068
00068
00068
00068
00068
                                 CALLS/CALLG
                 184
                 185
                                 This procedure will normally be called from the process's
                 186
                                 qualifier action routine for /UPDATE.
                 187
                 188
                 189
                         Inputs:
                 190
                 191
                                   4(AP)
                                            = CLI call back address
                 192
193
                                   8(AP)
                                           = CLI parameter qualifer descriptor block address
                                 12(AP)
                                            = CLI work area address
                 194
195
                                           = address to put update files list address (the address of the first update file)
                                 16(AP)
                 196
197
                 198
199
        0068
                         Outputs:
        0068
                 200
201
203
203
204
205
        8000
                                 None
        0068
        0068
                         Implicit inputs:
        0068
        0068
                                 The CLI data base
        8600
                 206
207
208
        8800
        860C
                         Implicit outputs:
        0068
                 209
        0068
                                 The update files list
                 0068
        0068
                         Procedure value:
        0068
                                 SUM$_NORMAL = LIB$_INSVIRMEM, LIB$_BADBLOSIZ,
        0068
                                                      Normal completion
        0068
        0068
        0068
                                 LIB$_BADBLOADR = Error from calling LIB$GET_VM or LIB$FREE_VM
        0068
        0068
        0068
        0068
05FC
        0068
                                  .ENTRY
                                           SUM$LIST_QUAL, ^M<R2, R3, R4, R5, R6, R7, R8, R10>
        006A
  D0
30
        006A
                                 MOVL
                                            #1,R8
                                                                              Initialise file number
                                            SUM GETSUMBLK
RO,30$
                                                                            : Get memory for Update file block : Error if LBC
        006D
                                 BSBW
```

16-SEP-1984 02:11:50 5-SEP-1984 03:39:08

VAX/VMS Macro VO4-00

[SUM.SRC]SUMLIST.MAR: 1

SUM

V04

2F

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(4)

Page

(4)

VAX/VMS Macro V04-00

```
16-SEP-1984 02:11:50
5-SEP-1984 03:39:08
                                                                                        [SUM.SRC]SUMLIST.MAR:1
10 BC
         5A
               DO 0073
                                          MOVL
                            226
                                                   R10, a16(AP)
                                                                                : Return address of first block
```

1 7

	· · · · · · · · · · · · · · · · · · ·		ハハフラ	555 .			, metal additional broad
57	56 08 AC 04 A6 54 00000000'EF 0E	D0 B5 13 9E 11	0077 0078 007E 0080 0087	228 229 230 231 232	MOVL TSTW BEQL MOVAB BRB	8(AP),R6 CLI\$W_QDVALSIZ(R6) 40\$ SUM_CLIVAL,R7 20\$	<pre>; Get parameter qualifer parameter block , Are there any values? ; No if EQL, return with empty node ; Set pointer to argument list ; Got first block so skip</pre>
	52 5A 58 00A6 39 50 62 5A	DO 30 E9 DO	0077 0077 0077B 00089 0089 0088 0099	227 228 228 2231 2233 2233 2233 2233 2233 2	MOVL INCL BSBW BLBC MOVL	R10,R2 R8 SUM_GETSUMBLK R0,30\$ R10,(R2)	; Save block address ; Increment file number ; Get memory block for next update file ; Error if LBC ; Link this block with previous block
	08 AC 0C AC 57 04 BC 03	DD DD DD FB	0097 0097 009A 009D 009F	239 20\$: 240 241 242 243	PUSHL PUSHL PUSHL CALLS	8(AP) 12(AP) R7 #3,24(AP)	; Push parameters, qualifer block address ; Work area address, ; Qualifer value descriptor block ; Get next qualifier value
	24 AA	DF	00A3 00A3 00A3 00A3	244 : Get 245 : Get 246 : 247	•	lock to save file speci	ification ; Address to store memory address

08 A7 00 BE 02 15 50 CLISW_RQSIZE(R7)
a(SP),UPF_Q_CMNT(R10)
#2,G^LIBSGET_VM
R0,30\$; Address of word containing size ; Store file specification size 00A6 PUSHAL DO 00A9 20 AA MOVL FB E9 28 0000000°GF 00AE 00B 0038 CALLS Get virtual memory block BLBC MOVC3 ; Error if LBC ; Copy file specification from CLI area ŽÕ ÄÄ 24 BA OC B7

248 249 250 251 253 255 255 255 257 258 259 260 261 262 UPF Q CMNT(R10), aCLISE RQVALU(R7), aUPF Q CMNT+4(R10)
#CLISV MOREVALS, CLISB RQSTAT(R7), 10\$ OBF OBF ; to virtual memory block 00BF 00C4 C5 03 A7 00 E0 BBS ; If more values go back for next #SUM\$_NORMAL,RO; Indicate successful completion 40\$ ر 11 00848001 8F 00C4 MOVL OOCB BRB ŎŎĊĎ

0000000'EF ÖÖCD 00 FB CALLS #0,SUM\$LIB_ERR ; Report library error 00D4 04 00D4 RET

5A

56

10 AC

08 AC

64

D4

DO

OODD

OODF

00E3

319

320 10**\$**:

CLRL

MOVL

8(AP),R6

```
16-SEP-1984 02:11:50 VAX/VMS Macro V04-00 
5-SEP-1984 03:39:08 [SUM.SRC]SUMLIST.MAR;1
                                                                                                                  Page
 SUM$LIST_PARAM
                .SBTTL SUM$LIST_PARAM
       00D5
       00D5
       00D5
                       Functional description:
       00D5
                              This procedure creates a singly linked update files list from the file specifications of a parameter. If the parameter is null the list will be empty.
       00D5
       00D5
       00D5
       00D5
       00D5
       00D5
                       Calling sequence:
       00D5
       00D5
                               CALLS/CALLG
       00D5
       00D5
                               This procedure will normally be called from the program's
       00D5
                               parameter processing routines.
       0005
                280
       0005
                281
                282
283
       00D5
                       Inputs:
       00D5
                284
285
       00D5
                                        = CLI call back address
       00D5
                                8(AP)
                                        = CLI parameter request descriptor block address
                286
287
       00D5
                               12(AP) = CLI work area address
       00D5
                               16(AP) = address to put update files list address (the address
       00D5
                288
                                           of the first update file)
       0005
                289
                290
291
293
293
294
296
298
       00D5
       00D5
                       Outputs:
       00D5
       00D5
                              None
       00D5
       ŎŎĎ5
                       Implicit inputs:
       0005
0005
0005
0005
0005
                              The CLI data base
                Ž99
                       Implicit outputs:
                301
       00D5
                302
303
                              The update files list
       00D5
       00D5
                304
305
                       Procedure value:
       ÖÖD 5
                306
307
       00D5
                                                  Normal completion
                               SUMS_NORMAL =
       00D5
                              LIB$_INSVIRMEM,
       00D5
                              LIBS BADBLOSIZ.
                309
       00D5
                              LIB$_BADBLOADR = Error from calling LIB$GET_VM or LIB$FREE_VM
       00D5
                310
       00D5
       00D5
       00D5
057C
       00D5
                               .ENTRY SUM$LIST_PARAM,^M<R2,R3,R4,R5,R6,R8,R10>
       00D7
                316
317
                                        16(AP),R10
  DO
       00D7
                                                                      ; Get address to return Update list
  D4
                               CLRL
                                         (R10)
       OODB
                                                                      : Clear in case parameter is null
```

: Initialise file number

: Get request block address

16-SEP-1984	02:11:50	VAX/VMS Macro V04-00
5-SEP-1984	03:39:08	[SUM.SRC]SUMLIST.MAR;1

00 6E 0C AC 56 04 BC 03 5E 04 2E 03 A6 00	DD 9F DD DD FB CO E1	00E3 321 00E5 322 00E7 323 00EA 324 00EC 325 00F0 326 00F3 327 00F8 328	PUSHAB PUSHAB PUSHL PUSHL CALLS ADDL BBC	#0 (SP) 12(AP) R6 #3,04(AP) #4,SP #CLISV_PARMPRS, - CLISB_RQSTAT(R6),20\$; Call CLI to get next file spec ; Work area address ; Request block address ; Call CLI ; Tidy stack ; Branch if no parameters
52 5A 58 38 2D 50 62 5A	D0 D6 10 E9 D0	00F8 329; 00F8 330 00FB 331 00FD 332 00FF 333 0102 334 0105 335;	MOVL INCL BSB BLBC MOVL	R10,R2 R8 SUM_GETSUMBLK R0,30\$ R10,(R2)	; Save block address ; Increment file number ; Get memory block for next update file ; Error if LBC ; Link this block with previous block
24 AA 08 A6 00 BE 00000000 GF 02 15 50 24 BA 0C B6 20 AA BD 03 A6 01	DF DF DO FB E9 28	0105 336 : Get 0105 337 : 0105 338 0108 339 0108 340 0110 341 0117 342 011A 343 0121 344 0121 345 0121 346 0126 347	PUSHAL PUSHAL MOVL CALLS BLBC MOVC3	ock to save file specific UPF Q CMNT+4(R10) CLI\$W_RQSIZE(R6) a(SP),UPF Q CMNT(R10) #2,G^LIB\$GET_VM R0,30\$ UPF Q CMNT(R10), - aCLI\$A_RQADDR(R6), - aUPF Q CMNT+4(R10) #CLI\$V_CONCATINP, - CLI\$B_RQSTAT(R6),10\$: Address to store memory address : Address of word containing size : Store file specification size : Get virtual memory block : Error if LBC : Copy file specification from CLI area : to virtual memory block : If more values go back for next
50 00848001 8F 07 00000000'EF 00	D0 11 FB 04	0126 348 20\$: 0126 349 0120 350 012F 351 30\$: 012F 352 0136 353 40\$: 0136 354	MOVL BRB Calls Ret	#SUM\$_NORMAL,RO; Indica 40\$	te successful completion; Report library error

K 7

.END

V04

```
M 7
 SUM$LIST
                                                                                                                                16-SEP-1984 02:11:50 VAX/VMS Macro V04-00 5-SEP-1984 03:39:08 [SUM.SRC]SUMLIST.MAR;1
                                                                                                                                                                                                                        Page
                                                                                                                                                                                                                                   10
 Symbol table
                                                                                                                                                                                                                                   (6)
                                                                                                      UPF_B_FIFLAGS
UPF_B_FILENO
UPF_K_BLN
UPF_L_PTR
UPF_Q_AUDDS
UPF_Q_CMNT
UPF_Q_EDITS
UPF_T_AUDST
UPF_T_AUDST
UPF_T_NAM
UPF_W_LOC1
UPF_W_LOC2
 SCLI.
                                                       = 00000000 R
                                                                                     03
                                                                                                                                                                 80000008
 SCLI..
                                                           0000001C R
                                                                                                                                                                 00000000
 ..ÁFLĞ
                                                           0000000
                                                                                                                                                                 00000098
 ..FLG
                                                           00000002
                                                                                                                                                                 00000000
 ..MOD
                                                           0000000
                                                                                                                                                                 00000018
 ..TYP
                                                                                                                                                                00000020
                                                           0000001F
 .LEN
                                                           00000001
BĪT...
                                                           00000005
                                                                                                                                                                 00000028
 CLISA ROADDR
                                                           00000000
                                                                                                                                                                 00000038
CLISA_RQADDR
CLISB_RQSTAT
CLISB_RQSTAT
CLISB_RQTYPE
CLISC_REQDESC
CLISK_ASCIIVAL
CLISL_RQVALU
CLISV_CONCATINP
CLISV_MOREVALS
CLISW_PARMPRS
CLISW_QDVALSIZ
CLISW_RQSIZE
DSCSA_POINTER
                                                           00000003
                                                                                                                                                                 000000A
                                                           0000000
                                                                                                                                                                 00000004
                                                           00000010
                                                                                                                                                                00000006
                                                           00000041
                                                       = 0000000C
                                                       = 00000001
                                                       = 00000000
                                                       = 00000000
                                                       = 00000004
                                                       = 00000008
                                                       = 00000004
DSCSW_LENGTH
LIBSGET_VM
                                                       = 00000000
                                                                                     04
                                                                              X
                                                       = 00000000
NAMSB_BID
NAMSB_BLN
                                                       = 00000001
NAMSC_BID
                                                       = 00000002
NAMSC_BLN
                                                       = 00000060
NAMSK_BLN
                                                       = 00000060
                                                       = 00000001
SIZ...
SUMSBL SZE
SUMSLIB ERR
SUMSLIST PARAM
SUMSLIST QUAL
                                                                                     04444
                                                           ******
                                                          000000D5 RG
                                                          00000068 RG
SUMSUPDATE QUAL
                                                          0000000 RG
SUMSVIRT ADDR
                                                                                     04
                                                           ******
SUMS NORMAL
SUM B FLAGS
SUM CEIVAL
                                                       = 00848001
                                                          00000010
                                                           00000000 R
SUM_GETSUMBLK
SUM_INIAUDST
                                                          00000137 R
SUM_INIAUDST
SUM_K_BLN
SUM_L_ISDATA
SUM_L_ISTS
SUM_M_AUDIT
SUM_M_AUDITNEW
SUM_M_SUBCLSH
SUM_G_AUDDS
SUM_G_FILESP
SUM_V_AUDIT
SUM_V_AUDITNEW
SUM_V_AUDITNEW
SUM_V_SUBCLSH
SUM_V_SUBCLSH
SUM_V_SUBCLSH
SUM_V_SUBCLSH
SUM_V_SUBCLSH
SUM_W_INSERT_NO
SUM_W_INSERT_NO
SUM_W_INSERT_NO
UPF_B_EDFLAGS
                                                          00000000 R
                                                           0000001D
                                                           00000004
                                                           0000000
                                                       = 00000001
                                                       = 00000002
                                                       = 00000010
                                                       = 00000004
                                                       = 00000008
                                                           00000008
                                                           00000010
                                                       = 00000000
                                                       = 00000001
                                                       = 00000004
                                                       = 00000002
                                                       = 00000003
                                                           0000001A
                                                           00000018
                                                           0000009
```

SUM

V04

SUM VO4

! Psect synopsis!

PSECT name	Allocation	PSECT No.	Attributes	
ABS . \$ABS\$ SUM\$RO_DATA SUM\$RW_DATA SUM\$CODE	00000000 (0.) 00000098 (152.) 00000009 (9.) 0000001c (28.) 00000186 (390.)	00 (0.) 01 (1.) 02 (2.) 03 (3.) 04 (4.)	NOPIC USR CON	ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE ABS LCL NOSHR EXE RD WRT NOVEC BYTE REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG REL LCL NOSHR NOEXE RD WRT NOVEC LONG REL LCL NOSHR EXE RD NOWRT NOVEC LONG

! Performance indicators ! -----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.08	00:00:00.51
Command processing	135	00:00:00.53	00:00:02.28
Pass 1	241	00:00:07.06	00:00:16.03
Symbol table sort		00:00:00.77	00:00:02.23
Pass 2 Symbol table output	0 79 10	00:00:00.77 00:00:01.49 00:00:00.07	00:00:02.23 00:00:03.34 00:00:00.12
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	505	00:00:00.00	00:00:00.00
Assembler run totals		00:00:10.03	00:00:24.54

The working : . limit was 1350 pages.
34417 bytes (to pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 535 non-local and 15 local symbols.
399 source lines were read in Pass 1, producing 26 object records in Pass 2.
32 pages of virtual memory were used to define 25 macros.

Macro library statistics !

Macro library name Macros defined _\$255\$DUA28:[SUM.OBJ]SUM.MLB;1 \$255\$DUA28: ESYSLIBJSTARLET.MLB; 2 16 TOTALS (all libraries) 20

808 GETS were required to define 20 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:SUMLIST/OBJ=OBJS:SUMLIST MSRCS:SUMLIST/UPDATE=(ENHS:SUMLIST)+LIBS:SUM/LIB

0369 AH-BT13A-SE

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